

### ABSTRACT OF THE DISCLOSURE

A pneumatic tyre for a vehicle wheel includes a toroidal carcass, a tread band, a belt structure, and at least one reinforcing layer associated with the carcass. The carcass includes at least one carcass ply having a substantially continuous right-section profile. The carcass has a central crown portion and two axially opposite sidewalls. Each sidewall terminates with a bead for mounting the tyre on a corresponding rim. Each bead includes at least one reinforcing core. The tread band is disposed crownwise, coaxially extending around the carcass, and includes a raised pattern for rolling contact with the ground. The belt structure is coaxially interposed between the carcass and the tread band. The tyre has a size ratio  $f/H$  less than 0.2:1. The at least one reinforcing layer is disposed radially external to a point of maximum axial width of the carcass and axially external to the belt structure.